

### Abstract of the Disclosure

A regulated charge pump circuit having two-way switching means that switches between a first feedback pathway that provides a precise and stable voltage output and a second feedback pathway that provides a regulated voltage output with low current consumption from the power source. The first feedback pathway maintains a precise voltage output by regulating a pass device that draws current to the voltage output. The second feedback pathway regulates the voltage output by controlling the connection of a clock input to the charge pump. A variable resistor is used to set the regulated level of the voltage output. A digital-to analog converter is formed by using a combination logic circuit to convert a digital input signal to a control signal for the variable resistor.